

539,012

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number  
**WO 2004/058141 A2**

(51) International Patent Classification<sup>7</sup>: **A61K**

(21) International Application Number:  
**PCT/KR2003/002859**

(22) International Filing Date:  
27 December 2003 (27.12.2003)

(25) Filing Language: **Korean**

(26) Publication Language: **English**

(30) Priority Data:  
10-2002-0085716  
28 December 2002 (28.12.2002) **KR**

(71) Applicant (*for all designated States except US*):  
**AMOREPACIFIC CORPORATION [KR/KR]**; 181, Hankang-ro 2 ka, Yongsan-ku, 140-777 Seoul (KR).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **CHO, Si, Young [KR/KR]**; No. 204, 487-8, Sangal-li, Kiheung-eup, Yongin-si, 449-905 Kyungki-do (KR). **LEE, Eun, Hee [KR/KR]**; No. B02, 476-8, Sangal-li, Kiheung-eup, Yongin-si, 449-905 Kyungki-do (KR). **KIM, Su, Jung [KR/KR]**; No.303, Vision house, 314-1, Borah-li, Kiheung-eupYongin-si, 449-904 Kyungki-do (KR). **SHIN, Eui, Seok [KR/KR]**; No. 105-303, Dongbu Centreville, Hamabi-maeul 493, unnam-li, Kusung-myun, Yongin-si, 449-915 Kyungki-do (KR). **CHANG, Hui, Kyuong [KR/KR]**; No. 301, Vision house, 314-1, Borah-li, Kiheung-eup, Yongin-si, 449-904 Kyungki-do (KR). **KIM, Duck, Hee [KR/KR]**; No. 2-902, Hanyang Apartment, Banpo-3-dong, Seocho-ku, 137-043 Seoul (KR). **YEOM, Myeong, Hoon [KR/KR]**; No. 101-902, Beoksan Apartment, 832, JookJeon-2-dong, Suji-eup, Yongin-si, 449-845

**Kyoungki-do (KR). WOE, Kwang, Sik [KR/KR]; No. 169, Songam-li, Shini-myun, Choongju-si, 380-892 Choongchungbuk-do (KR). LEE, Tae, Ryong [KR/KR]; No. 932-1303, Taeyoung Apartment, Youngtong-dong Paldal-ku, Suwon-si, 442-470 Kyoungki-do (KR). SIM, Young, Chul [KR/KR]; No. 123-1402, Samik Apartment, Parktown, Sunae-dong, Bundang-ku, Sungnam-si, 463-020 Kyoungki-do (KR).**

(74) Agents: **YOON, Dong, Yol et al.; Yoon & Lee International Patent & Law Office, 9th Fl., Yosam Bldg., 648-23, Yoksam-dong, Kangnam-ku, 135-748 Seoul (KR).**

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

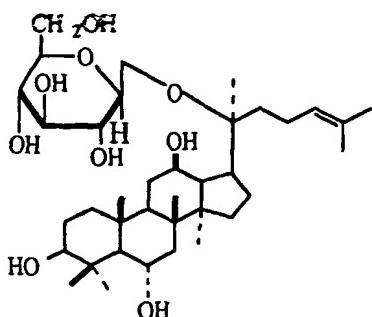
(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AN AGENT FOR CONTROLLING BCL-2 EXPRESSION COMPRISING GINSENOSIDE F1 AS AN ACTIVE COMPONENT



(57) Abstract: The present invention relates to an agent for controlling Bcl-2 expression comprising ginsenoside F1 (20-O- $\beta$ -D-glucopyranosyl-20(S)-protopanaxatriol) represented by the following formula 1 as an active component. [Formula 1]

(1)